



Southern California Edison Company

P. O. BOX 800
2244 WALNUT GROVE AVENUE
ROSEMEAD, CALIFORNIA 91770

March 14, 1995

Mr. Emmanuel Mensah
Waste Management Engineer
California Environmental
Protection Agency
Department of Toxic Substances Control
10151 Croydon Way, Suite 3
Sacramento, Ca 95827

Subject: VISALIA POLE YARD
REPORT OF REMOVAL ACTION

Dear Mr. Mensah:

Enclosed for your approval are two copies of the report that details the remedial actions taken for the hydrocarbon contamination at the Visalia Service Center (VSC) garage and the former pole yard office. The completed work described in this report was outlined in the Work Plan submitted to you in November, 1994.

As indicated by the data in the attached report, hydrocarbon contamination in the two subject areas has been removed and the areas should be released from regulatory concern. Contaminated soil from the described removal actions has been deposited in the existing on-site landfarm treatment area for bioremediation.

Southern California Edison is requesting the Department's timely concurrence that the subject areas at the Visalia Pole Yard are no longer of regulatory concern.

If you have any questions, I can be reached at (818) 302-2216.

Sincerely,

George M. Becker
Senior Environmental Specialist

cc: Mr. Dick Procunier, USEPA, Region IX
Mr. Eric Becker, Central Valley RWQCB
Mr. R.S. Weidner (for file)

2201388



Southern California Edison Company

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**REPORT OF REMOVAL ACTION
AND INITIATION OF REMEDIATION
SOILS CONTAINING PETROLEUM HYDROCARBONS
FORMER GARAGE AND POLE YARD OFFICE
SOUTHERN CALIFORNIA EDISON
VISALIA POLE YARD**

**432 North Ben Maddox Way
Visalia, California**

Submitted To:

California EPA
Department of Toxic Substances Control
Site Mitigation Unit
10151 Croydon Way
Sacramento, CA 95827

Prepared By:

SCE Environmental Engineering
2244 Walnut Grove Avenue, Room 405
Rosemead, California 91770

March 13, 1995

**REPORT OF REMOVAL ACTION
AND INITIATION OF REMEDIATION
SOILS CONTAINING PETROLEUM HYDROCARBONS
FORMER GARAGE AND POLE YARD OFFICE
SOUTHERN CALIFORNIA EDISON
VISALIA POLE YARD**

INTRODUCTION

This report documents the methods and results of the activities conducted to remove and initiate remediation of soils containing petroleum hydrocarbons beneath both the former Visalia Service Center (VSC) Garage and former Pole Yard Office. The location of these two areas, and other site features, are shown on the Site Plan, Figure 1. This work was conducted in accordance with a Work Plan submitted to the Department of Toxic Substances Control (DTSC) in November, 1994.

SCE completed demolition of structures associated with the former VSC and Pole Yard operations in August, 1994. Following demolition of the VSC, subsurface soil sampling was conducted beneath the vehicle hoists and wash rack clarifier in the former Garage building. Initial analytical results showed hydraulic oil was present immediately beneath the east vehicle hoist. A follow-up subsurface investigation was conducted in September, 1994 to define the extent of the hydraulic oil release.

Soil sampling conducted beneath and adjacent to the former Pole Yard Office in 1990, during UST removals, indicated a diesel release beneath the west wall of the building. Further investigation to fully define the release was conducted in September, 1994, to support the Work Plan for this removal action.

The following sections describe the soil removal action, verification sampling and analytical protocols; and initiation of ex-situ bioremediation of the impacted soils to reduce hydrocarbon concentrations to below hazardous levels.

SOIL REMOVAL AND VERIFICATION SAMPLING

SERVICE CENTER GARAGE

The soil containing hydraulic oil was removed with an excavator to a depth of fifteen feet, on December 6, 1994. The excavation extended laterally to the four

previous sampling points (documented in the Work Plan) where no hydrocarbons were detected. The location and dimensions of the excavation are shown on the Hydraulic Oil Excavation Plan, Figure 2. The excavated material was transported to the landfarm plot, located inside the slurry wall, north of the old Pole Yard Office. The plot location is shown on the Site Plan.

Verification Sampling

Following soil removal, two soil samples were obtained from the bottom of the excavation; one in the west half and one in the east half, as shown on Figure 2. Samples were collected in a clean glass jar with teflon-lined lid, from an excavator bucket of freshly excavated soil. The samples were designated HOREM-1 (west sample) and HOREM-2 (east sample). After acquisition, the samples were hand-delivered to an on-site mobile laboratory, operated by Calscience Environmental Laboratories, Inc. Standard chain-of-custody procedures were followed.

Analytical Program

Both soil samples were analyzed for TPH as hydraulic oil (EPA Method 8015, Modified), using a hydraulic oil standard.

Analytical Results

Both soil samples were below the detection limit (10mg/Kg) for TPH-Hydraulic Oil, as summarized below. A copy of the Analytical Report, Quality Assurance Summary, and chain-of-custody are presented in Appendix A.

SAMPLE NUMBER	Hydraulic Oil Concentration (mg/Kg)
HOREM-1	ND
HOREM-2	ND

POLE YARD OFFICE

Soil containing diesel was removed with an excavator to a depth of 25 feet, on December 6, 1994. The excavation was centered on the boring which indicated diesel during the recent site characterization (KB-3, Appendix 2 of Work Plan), and extended laterally to where there was no indication of the presence of diesel. The dimensions of the initial excavation is shown on the Diesel Excavation Plan, Figure 3. Additional excavation was required on the north wall of the excavation, which is also shown on the Figure. The excavated material was transported to the landfarm plot.

Verification Sampling

Following initial excavation, soil samples were obtained to verify adequacy of the removal action. A soil sample was obtained from the middle of each sidewall of the excavation, at a depth of twenty feet. These samples, located as shown on Figure 3, were designated VPY-DREM-1 (north wall), VPY-DREM-2 (east wall), VPY-DREM-3 (west wall), and VPY-DREM-4 (south wall). Two samples were obtained from the bottom of the excavation, at a depth of twenty-five feet, at the locations shown on the Figure. They were designated VPY-DREM-5 and VPY-DREM-6. Samples were collected in a clean glass jar with teflon-lined lid, from an excavator bucket of freshly excavated soil. Following collection and labeling, the samples were hand-delivered to the mobile laboratory.

Initial analytical results of the north wall sample (VPY-DREM-2) indicated the presence of diesel, at a concentration of 274 mg/Kg. Additional excavation was conducted in the north wall, as shown on Figure 3. Following additional removal, another sample (designated VPY-DREM-7) was collected from the north wall extension, at a depth of twenty feet.

Analytical Program

All soil samples were analyzed for TPH as diesel (EPA Method 8015 , Modified), by the Calscience mobile laboratory.

Analytical Results

All soil samples obtained from the final limits of the excavation were below the detection limit (10 mg/Kg) for diesel, as summarized below. A copy of the Analytical Report, Quality Assurance Summary, and chain-of-custody are presented in Appendix A.

SAMPLE NUMBER	Hydraulic Oil Concentration (mg/Kg)
VPY-DREM-1	ND
VPY-DREM-2	274
VPY-DREM-3	ND
VPY-DREM-4	ND
VPY-DREM-5	ND
VPY-DREM-6	ND
VPY-DREM-7	ND

SOIL REMEDIATION

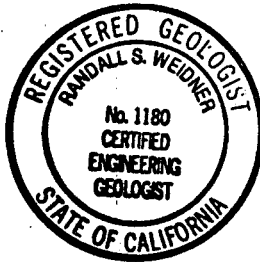
The excavated soil from the vehicle hoist and Pole Yard Office were spread out to uniform thickness of approximately one foot at the landfarm plot. A berm of clean imported soil was then constructed around the plot. Treatment consists of weekly tilling to aerate the soil, maintenance of proper moisture, and monthly addition of fertilizer to maintain appropriate nutrient content in the soil.

EXCAVATION BACKFILL

Following verification of the adequacy of removal actions in the two excavations, they were backfilled with clean, imported sand. Since the area where the vehicle hoist excavation is located may be used in the future for industrial/commercial purposes, an engineered backfill was performed. A copy of the compaction report, prepared by Central Valley Testing, Inc., is presented in Appendix B. The Pole Yard Office excavation was backfilled in a similar manner, but was not tested.

If there are any questions or comments on this report, please contact the undersigned at (818) 302-4033, or George Becker, at (818) 302-2216.

Respectfully Submitted,



A handwritten signature in cursive script that reads "Randall S. Weidner".

Randall S. Weidner
CEG 1180

Attachments:

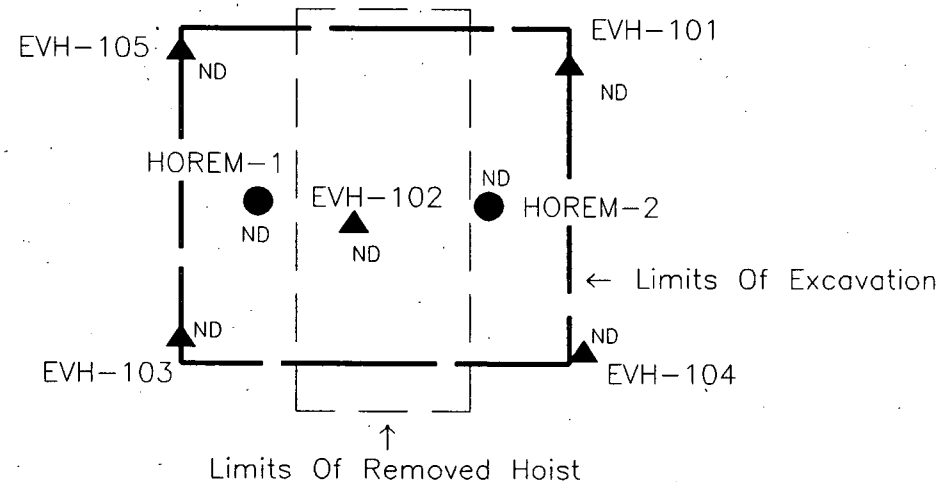
- Figure 1 - Site Plan
- Figure 2 - Hydraulic Oil Excavation Plan
- Figure 3 - Diesel Excavation Plan

- Appendix A - Laboratory Reports
- Appendix B - Compaction Report

FIGURES

Demolished Building Footprint

Demolished Building Footprint



FORMER GARAGE BUILDING

Demolished Building Footprint

EXPLANATION

- ▲ND EVH-104 Number and location of previous soil sample
- HOREM-2 Number and location of post-excavation soil sample
- ND CONCENTRATION, mg/Kg

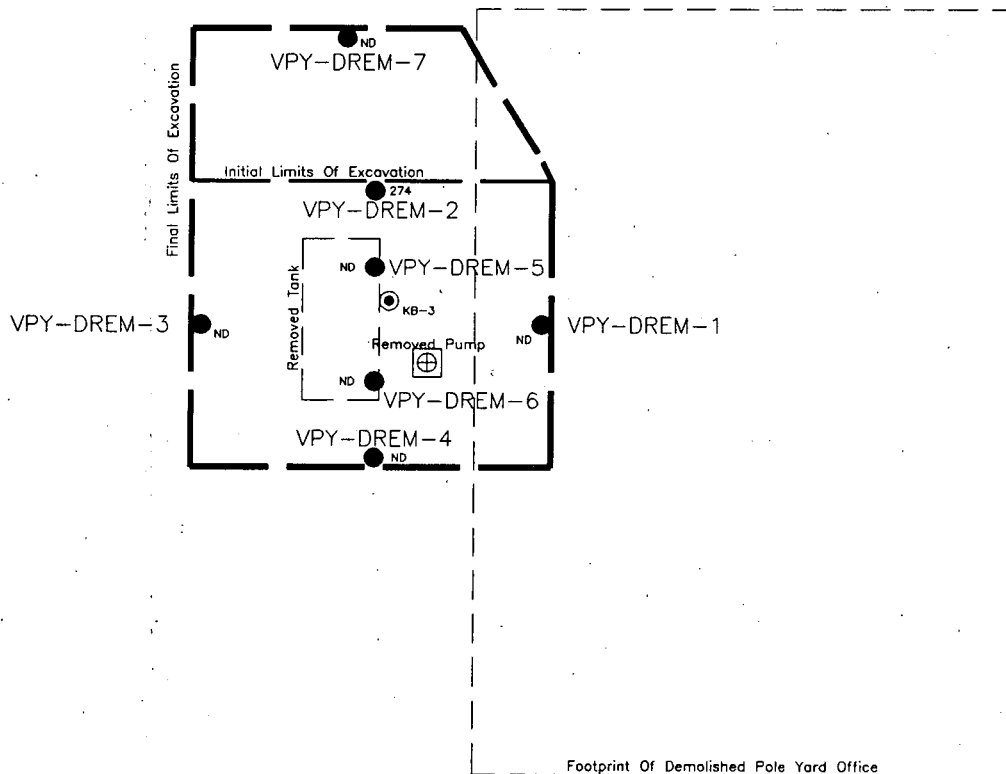
SCALE: 1" = 10'



HYDRAULIC OIL EXCAVATION PLAN
VISALIA SERVICE CENTER

PROJ. REF. NO.

FIGURE 2



EXPLANATION



Site characterization boring



Number and location of post-excavation soil sample
CONCENTRATION, mg/Kg

SCALE: 1" = 10'



DIESEL EXCAVATION PLAN

VISALIA POLE YARD OFFICE

PROJ. REF. NO.

FIGURE 3

APPENDIX A

Laboratory Reports

ANALYTICAL REPORT

Southern California Edison Company
Environmental Affairs
P.O. Box 800, Room 405, GO 1
Rosemead, CA 91770

Attn: Randy Weidner
RE: Visalia Pole Yard

Date Sampled: 12/06/94
Date Received: 12/06/94
Date Extracted: 12/06/94
Date Analyzed: 12/06/94
Work Order No.: 294-12-002
Method: EPA 8015M
Page 1 of 1

All total petroleum hydrocarbon concentrations are reported in mg/kg (ppm) using diesel fuel as a standard.

<u>Sample Number</u>	<u>Concentration</u>	<u>Reportable Limit</u>
VPY-DREM-1	ND	10
VPY-DREM-2	274	10
VPY-DREM-3	ND	10
VPY-DREM-4	ND	10
VPY-DREM-5	ND	10
VPY-DREM-6	ND	10
VPY-DREM-7	ND	10
Method Blank	ND	10

Reviewed and Approved


William H. Christensen
Deliverables Manager

on 12/15/1994

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M-Diesel

Southern California Edison Company
Page 1 of 1

Work Order No.: 294-12-002
Date Analyzed: 12/06/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: VPY-DREM-1

<u>Analyte</u>	<u>MS%REC</u>	<u>MSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Total Petroleum Hydrocarbons	91	96	55 - 135	5	0 - 30

Reviewed and approved: William H. Christensen on 12/15/1994.

William H. Christensen
Deliverables Manager

ANALYTICAL REPORT

Southern California Edison Company
Environmental Affairs
P.O. Box 800, Room 405, GO 1
Rosemead, CA 91770

Attn: Randy Weidner
RE: Visalia Pole Yard

Date Sampled: 12/06/94
Date Received: 12/06/94
Date Extracted: 12/06/94
Date Analyzed: 12/06/94
Work Order No.: 294-12-002
Method: EPA 8015M
Page 1 of 1

All total petroleum hydrocarbon concentrations are reported in mg/kg (ppm) using hydraulic oil as a standard.

<u>Sample Number</u>	<u>Concentration</u>	<u>Reportable Limit</u>
VPY-HOREM-1	ND	10
VPY-HOREM-2	ND	10
Method Blank	ND	10

Reviewed and Approved


William H. Christensen
Deliverables Manager

on 12/15/1994

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M-Hydraulic Oil

Southern California Edison Company
Page 1 of 1

Work Order No.: 294-12-002
Date Analyzed: 12/06/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: VPY-HOREM-1

<u>Analyte</u>	<u>MS%REC</u>	<u>MSD%REC</u>	<u>Control Limits</u>	<u>%RPD</u>	<u>Control Limits</u>
Total Petroleum Hydrocarbons	101	103	55 - 135	2	0 - 30

Reviewed and approved: William H. Christensen on 12/15/1994.

William H. Christensen
Deliverables Manager

**CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.**

11631 SEABOARD CIRCLE
STANTON, CA 90680
TEL: (714) 895-5494 • FAX: (714) 894-7501

294-12-002

CHAIN OF CUSTODY RECORD

Date 12/6/94
Page 1 of 4

LABORATORY CLIENT: <u>SCF</u>		CLIENT PROJECT NAME / NUMBER: <u>Ar Randy Weidner Visalia Pole Yard</u>	
ADDRESS: <u>P.O. Box 800, Room 405, 501</u>		PROJECT CONTACT:	
CITY: <u>Rosemead</u>	STATE: <u>CA</u>	ZIP: <u>91770</u>	
TEL:	FAX: <u>(818) 302-9730</u>	SAMPLER(S) SIGNATURE: <u>Randy Weidner</u>	

TURNAROUND TIME¹

☐ SAME DAY (≤ 6 HR)², 125% ☐ 24 HOURS, 100% ☐ 48 HOURS, 50% ☐ 72 HOURS³, 25% ☐ 5 DAYS ☐ 10 DAYS ☐ RUSH WRITTEN REPORT, 10%

1. All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m., M - F. 2. Prior approval is required. 3. Surcharge does not apply to Tedlar bag samples.

SPECIAL INSTRUCTIONS/REQUIREMENTS:

☐ ROUTINE QC ☐ RWQCB Report Format
MB, MS/MSD, Surrogates,
LCS as applicable.
Final reports including QC are typically released within three days following the TAT.

Mobile Lab

SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING		WATER		AIR		SOLID/ SOL/FILTER	NO. OF Containers	ANALYSES REQUIRED
		DATE	TIME	Comp.	Grab	Intg.	Grab			
1 VPY-DREM-1		12/6/94						S	1	μ8015 Diesel
2 VPY-DREM-2								S	1	
3 VPY-DREM-3								S	1	
4 VPY-DREM-4								S	1	
5 VPY-DREM-5								S	1	
6 VPY-DREM-6								S	1	
7 VPY-DREM-7								S	1	
1 VPY-HOREM-1								S	1	μ8015 Hydraulic Oil
2 VPY-HOREM-2								S	1	" "

Relinquished by: (Signature) <u>Randy Weidner</u> 12/6/94	Received by: (Signature) <u>Armando Reyes</u>	Date: 12/6/94	Time: 5:16 pm
Relinquished by: (Signature) <u>Armando Reyes</u>	Received by: (Signature) <u>Armando Reyes</u>	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature) <u>Armando Reyes</u>	Date: 12/12/94	Time: 7:00

Unless otherwise requested, all samples will be disposed of 30 days after receipt.

DISTRIBUTION: White with report, Yellow to CEL, Pink to Client

7-15-94 Revision

APPENDIX B

Compaction Report



CENTRAL VALLEY TESTING, Inc.

materials testing and inspection services
soils and environmental investigations

Report No. 94-1478

January 4, 1995

FOR: Paul Dunn
Dunn's Sand
15602 Ave. 286
Visalia, California 93291

PROJECT: Edison Poleyard, Visalia, California.

SUBJECT: Spot soil density tests taken in Pit Backfill.

TESTS WERE PERFORMED BY: F. Rodriguez on December 7, 8 and 9, 1994.

I. MAXIMUM DENSITY OF SOIL:

<u>MATERIAL NO.</u>	<u>MATERIAL IDENTIFICATION</u>	<u>MAXIMUM DRY DENSITY LBS/CU.FT.</u>	<u>OPTIMUM MOISTURE %</u>
1	Sand	114.6	8.1

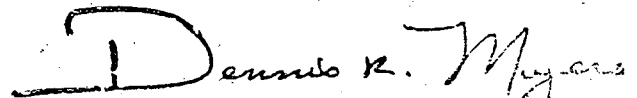
II. FIELD DENSITY TESTS

<u>TEST NO.</u>	<u>TEST LOCATION</u>	<u>LOT NO.</u>	<u>MAT NO.</u>	<u>BELOW EXISTING GRADE, IN.</u>	<u>FIELD DENSITY LBS, CU.FT.</u>	<u>FIELD MOIS TURE</u>	<u>RELATIVE COMPACTION</u>
1	North Sector			180-186	110.4	12.3	96.3
2	East Sector			156-162	112.8	12.7	98.4
3	South Sector			132-138	112.2	12.0	97.9
4	West Sector			108-114	111.3	12.3	97.9
5	Central Sector			84-90	112.6	9.7	98.3
6	North Sector			60-66	111.4	10.1	97.2

Page 2
Paul Dunn
Report No. 94-1478

<u>TEST NO.</u>	<u>TEST LOCATION</u>	<u>LOT NO.</u>	<u>MAT NO.</u>	<u>BELOW EXISTING GRADE, IN.</u>	<u>FIELD DENSITY LBS. CU. FT.</u>	<u>FIELD MOIS TURE</u>	<u>RELATIVE COMPACTION</u>
7	East Sector			36-42	112.4	12.1	98.0
8	South Sector			12-18	112.1	12.4	97.8

Central Valley Testing, Inc.

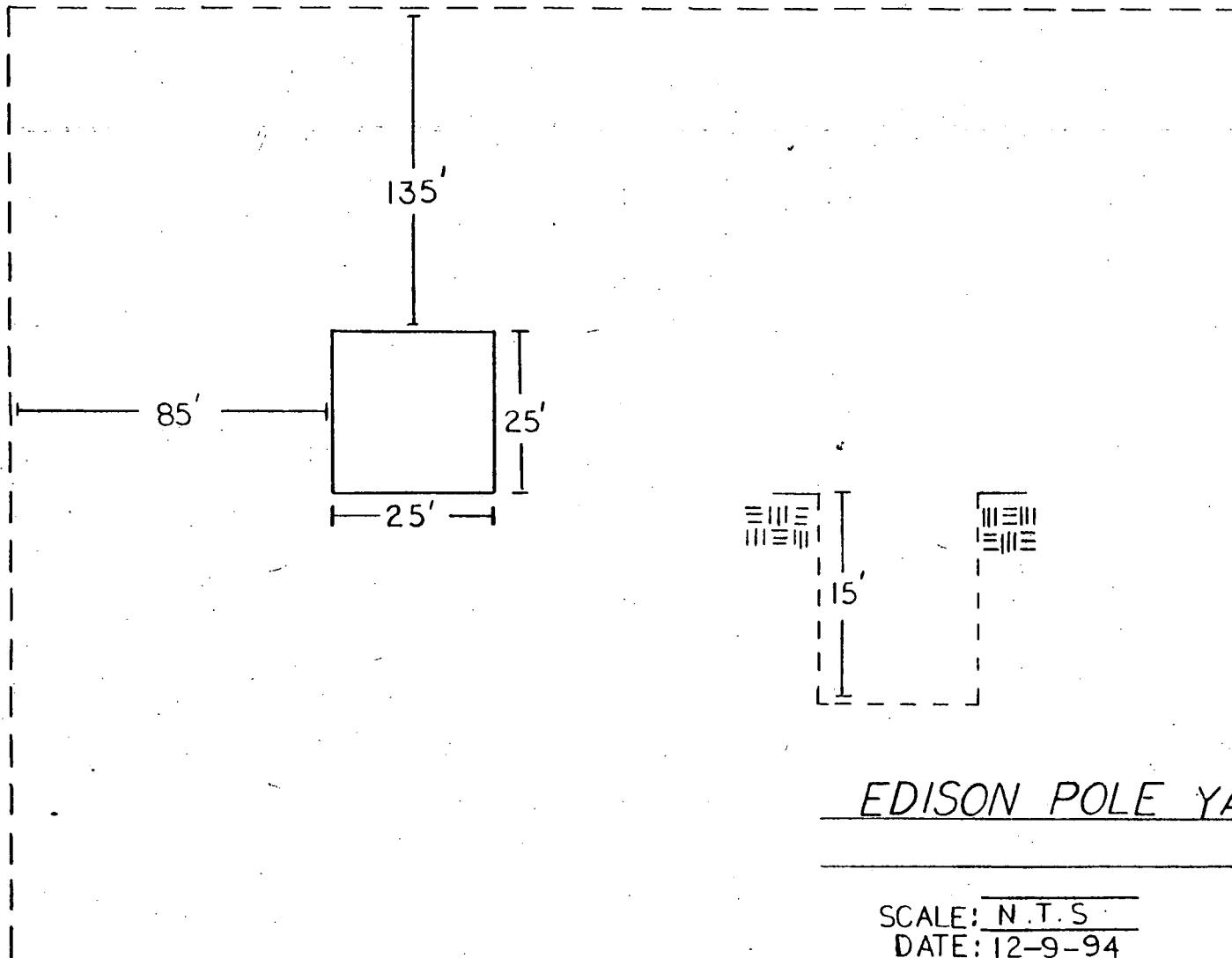
Dennis R. Myers

cc: City of Reedley
DM/tr

Dennis R. Myers
Director of Operations

BEN MADDOX

GOSHEN AVE.



EDISON POLE YARD

SCALE: N.T.S.
DATE: 12-9-94
DRAWING: *QSR*

VISALIA, CA.